

AIMB-210

Intel® ATOM™ Mini ITX Motherboard with Dual LVDS, 6 COM, and Dual LAN

Preliminary

Features

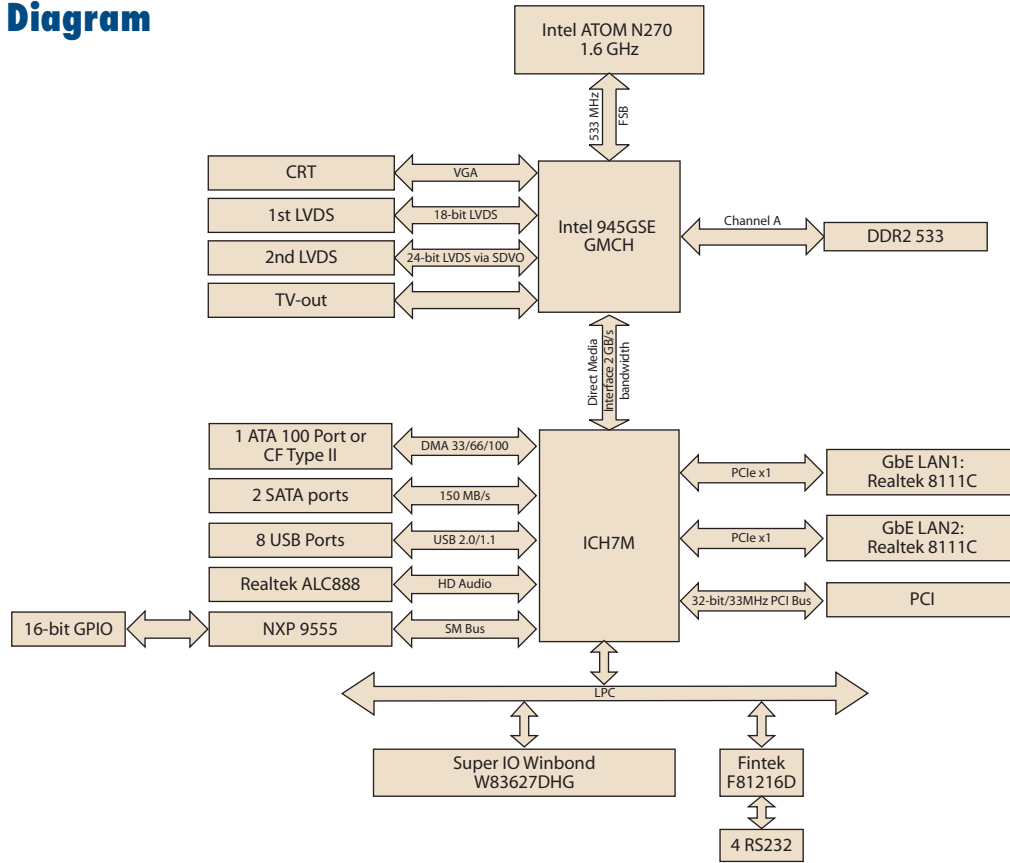
- Intel ATOM mini ITX motherboard supports N270 1.6 GHz processor
- Intel 945GSE and ICH7M
- One SODIMM socket supports up to 2 GB DDR2 533 SDRAM
- Supports two dual-channel LVDS panel and TV-Out
- Supports Dual GbE LAN
- Built with 6 serial ports, 8 USB, and CF
- Supports 1 PCI expansion



Specifications

Processor System	CPU (45 nm)	Intel ATOM N270
	Max. Speed	1.6 GHz
	Front Side Bus	533 MHz
	L2 Cache	512 KB
	Chipset	Intel 945GSE + ICH7M
	BIOS	Award 16 Mbit SPI
	PCI	32-bit/33 MHz, 1 slot
Expansion Slot	Mini-PCI	-
	PCIe	-
	Technology	Single Channel DDR2 533 SDRAM
Memory	Max. Capacity	2 GB
	Socket	200-pin SODIMM x 1
	Controller	Intel 945GSE GMCH integrated Graphic Media Accelerator 950
Graphics	VRAM	Shared system memory up to 224 MB SDRAM
	1st LVDS	Single channel 18-bit/Dual channel 36-bit LVDS
	2nd LVDS	Single channel 18/24-bit/Dual channel 36/48-bit LVDS, via Chronitel 7308B SDVO transmitter
	TV-Out	Supports both S-video and composite video (TV-Out function is not supported during POST stage)
	Dual Display	VGA + LVDS, LVDS + LVDS, LVDS + TV-Out
	Interface	10/100/1000Base -T
Ethernet	Controller	GbE LAN1: Realtek 8111C; GbE LAN2: Realtek 8111C
	Connector	RJ-45 x 2
SATA	Max Data Transfer Rate	150 MB/s
	Channel	2
EIDE	Mode	EIDE (Ultra DMA 100)
	Channel	1
SSD	Compact Flash	Supports compact flash type I/II
	VGA	1
Rear I/O	Ethernet	1 (for VG version); 2 (for G2 version)
	USB	4 (USB 2.0 compliant)
	Audio	MIC-In, Line-Out, Line-in
	Serial	1 (RS-232)
	Parallel	1
	PS/2	2 (1 x keyboard and 1 x mouse)
	Internal Connector	LVDS & Inverter
USB		4 (USB 2.0 compliant)
Serial		5 (4 of RS-232, 1 of RS-232/422/485)
IDE		1
SATA		2
Compact Flash		1
IrDA		-
DIO		16-bit GPIO
Watchdog Timer	Output	Interrupt, system reset
	Interval	Programmable 1 ~ 255 sec/ min
Power Requirement	Typical	
	Operating	
Environment	Temperature	0 ~ 60° C (32 ~ 140° F)
	Dimensions	170 mm x 170 mm (6.69" x 6.69")

Board Diagram



Ordering Information

Part Number	CPU	Chipset	GbE	COM	LVDS	TV-Out
AIMB-210VG-S6A1E	ATOM 1.6 GHz	945GSE	1	6	1	Yes
AIMB-210G2-S6A1E	ATOM 1.6 GHz	945GSE	2	6	2	Yes

Riser Card

Part Number	Description
AIMB-RP30P-03A1E	2U riser card with 3 PCI slot expansion

Bracket View

Packing List

Description	Quantity
AIMB-210 SBC	x 1
IDE HDD cable (40 pin)	x 1
SATA HDD cable	x 2
SATA Power cable	x 2
Serial port cable	x 2
CPU cooler	x 1
I/O port bracket	x 1
Startup manual	x 1
Driver CD	x 1

Accessories

Part Number	Description
1700003195	USB cable with four ports, 17.5 cm
1700002204	USB cable with four ports, 27 cm
1700002314	USB cable with four ports, 30.5 cm